

1 **What is claimed is:**
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3 1. Telephone answering apparatus for a subscriber of a paging system, said
4 apparatus coupled to a telephone network for automatically receiving telephone calls
5 including corresponding paging messages directed to said subscriber, such telephone
6 calls including corresponding source identifications signals generated by the telephone
7 network to identify the name and telephone numbers of the corresponding sources of the
8 telephone calls, said apparatus also coupled to a paging terminal of said paging system,
9 said paging terminal operative to transmit paging messages to a portable paging receiver
0 of said subscriber, said apparatus comprising:

1 means for storing a set of predetermined source identification codes;

2
3 means coupled to the telephone network for automatically receiving telephone
4 calls directed to said subscriber and for decoding the source identification signals
5 thereof to generate corresponding decoded source identification codes;

6
7 controller means coupled to said receiving means for selecting paging messages
8 of the received telephone calls based on a correlation of the decoded source
9 identification codes to said telephone calls with at least one of said stored set of
0 predetermined source identification codes;

1
2 means for coupling to said paging terminal and governed by said controller means
3 to direct said selected paging messages to said paging terminal for transmission to
4 said subscriber's paging receiver wherein said paging message is comprised of at
5 least data representing the said source identification signal.
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1 2. The apparatus in claim 1 wherein said paging message is comprised of said
2 source identification signal and data representing a voice message.
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5 3. The apparatus in claim 1, including a storage means for storing said decoded
6 source identification codes and said voice message data.
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9 4. The apparatus in claim 1 including a text to speech means wherein said source
0 identification signal received and decoded is converted to stored audible voice data.
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1 5. Telephone answering apparatus for a subscriber of a paging system, said
2 apparatus coupled to a telephone network for automatically receiving telephone calls
3 including corresponding paging messages directed to said subscriber, such telephone
4 calls including corresponding audible voice source identification signals generated by the
5 telephone network to identify the telephone numbers of the corresponding sources of the
6 telephone calls, said apparatus also coupled to a paging terminal of said paging system,
7 said paging terminal operative to transmit paging messages to a portable paging receiver
8 of said subscriber, said apparatus comprising:

9
0 means coupled to the telephone network for automatically receiving telephone
1 calls directed to said subscriber and for storing the audible voice source
2 identification signals;

3
4 controller means coupled to said receiving means for selecting paging messages
5 of the received telephone calls;

6
7 means for coupling to said paging terminal and governed by said controller means
8 to direct said selected paging messages to said paging terminal for transmission to
9 said subscriber's paging receiver wherein said paging message is comprised of at
0 least audible voice data representing the said source identification signal;

1 6. The apparatus in claim 1 where source identification signals received are
2 automatically supplied from the telephone network as Automatic Number Identification
3 signals.
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6 7. The apparatus in claim 1 where source identification signals received are
7 automatically supplied from the telephone network as Caller Identification signals.
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0 8. The apparatus in claim 1 where source identification signals received are DTMF
1 signals manually entered by a calling party after an on-hook condition.
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4 9. The apparatus in claim 1 where source identification signals received are fax
5 header signals automatically sent by a calling facsimile apparatus.
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1 10. A paging system, comprising:

2
3 a paging center;

4
5 a telephone answering device;

6
7 said telephone answering device including:

8 (a) means for receiving, via the telephone lines, a signal representative of a
9 caller's name and telephone number sent before the telephone answering
0 device is engaged in a closed loop condition;

1
2 (b) means for transmitting a prerecorded outgoing message to a caller, via a
3 closed loop of telephone lines, upon reception of an incoming telephone
4 call, and for storing a caller's voice message and the said signal
5 representative of a caller's name and telephone number whereby the
6 subscriber can obtain the caller's stored voice message and associated
7 source identification signal;

8
9 (c) means for automatically, temporarily releasing the closed loop of the
0 telephone lines, and for reestablishing the closed loop of the telephone
1 lines after said voice message and source identification signal is received
2 and stored;

3
4 (d) means for calling the paging center, after said closed loop of the telephone
5 lines is reestablished; and

6
7 (e) means for transmitting said stored voice message and source identification
8 signal to the paging center via the telephone lines;

1 a portable receiver unit, adapted to be called by the paging center, with a display
2 window for displaying data corresponding to said source identification signal;

3
4 whereby the subscriber through the portable receiver unit is notified of the caller's
5 identity and can selectively retrieve the associated voice message for annunciation stored
6 in the portable receiver unit.
7

1 11. A paging system, comprising:

2
3 a paging center;

4
5 a telephone answering device;

6
7 said telephone answering device including:

8
9 (a) means for receiving, via the telephone lines, a signal representative of a
0 caller's telephone number sent before the telephone answering device is
1 engaged in a closed loop condition;

2
3 (b) means for transmitting a prerecorded outgoing message to a caller, via a
4 closed loop of telephone lines, upon reception of an incoming telephone
5 call, and for storing a caller's voice message and the said signal
6 representative of a caller's telephone number whereby the subscriber can
7 obtain the caller's stored voice message and associated source
8 identification signal;

9
0 (c) means for automatically, temporarily releasing the closed loop of the
1 telephone lines, and for reestablishing the closed loop of the telephone
2 lines after said voice message and source identification signal is received
3 and stored;

4
5 (d) means for calling the paging center, after said closed loop of the telephone
6 lines is reestablished; and

7
8 (e) means for transmitting at least said source identification signal to the paging
9 center via the telephone lines;

1
2 a portable receiver unit, adapted to be called by the paging center, with a display
3 window for displaying data corresponding to said source identification signal;
4

5 whereby the subscriber through the portable receiver unit is notified of the caller's
6 identity and can directly call and talk to the caller from outside the subscriber's office or
7 can directly call and listen to the voice message at said telephone answering device at
8 said subscriber's office.
9

1 12. The paging system in claim 8 wherein said source of identification signals are
2 audible voice signals and said portable receiver unit contains a sound output means
3 whereby said received source identification signals may be annunciated for the called
4 subscriber.

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7 13. The paging system in claim 8 wherein is provided a means for providing a caller an
8 audible verification of the stored name and telephone number signal data received prior to
9 ending the call and means for allowing the caller to selectively replace the stored caller
0 identifying information prior to ending the call for transmission to a portable receiver
1 device.
2

1 14. A method of communication information wherein said method of initiating
2 communication between a calling party and a paging network involves the steps of:

3
4 providing a called party location with a caller identification and optional data
5 detection and storage means, and a communication means to initiate a communication
6 with a paging network;

7
8 initiating a first communication between a calling party and a called party location
9 over a telephone network;

0
1 receiving and storing at a called party location at least caller identification
2 information automatically supplied from the telephone network;

3
4 receiving and storing at a called party location optional data from the calling party;

5
6 terminating said first communication between said calling party and said called
7 party location over said telephone network;

8
9 automatically initiating a second communication between said called party location
0 and said paging network through said telephone network;

1
2 automatically recalling said stored caller identification information and said optional
3 data from said called party location storage means and transmitting to said paging
4 network through said telephone network;

5
6 receiving said caller identification information and said optional data at said
7 portable communication device identified in said paging network to said called party
8 subscriber.
9

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2 15. A method of communication information wherein said method of initiating
3 communication between a calling party and a paging network involves the steps of:

4
5 providing a called party location with a caller identification and optional data
6 detection and storage means, and a communication means to initiate a communication
7 with a paging network;

8
9 initiating a first communication between a calling party and a called party location
0 over a telephone network;

1
2 receiving and storing at a called party location at least caller identification
3 information automatically supplied from the telephone network;

4
5 receiving and storing at a called party location optional data from the calling party;
6 terminating said first communication between said calling party and said called
7 party location over said telephone network;

8
9 automatically initiating a second communication between said called party location
0 and said paging network;

1
2 automatically recalling said stored caller identification information and said optional
3 data from said called party location storage means and transmitting to said paging
4 network through said telephone network;

5
6 receiving said caller identification information and said optional data at said
7 portable communication device identified in said paging network to said called party
8 subscriber.
9

1 16. A method of communicating information from a calling party to a called party
2 utilizing a paging network a telephone answering apparatus and a telephone network,
3 said information including caller identification information including at least a bit string
4 representation of a telephone number for a particular telephone unit used by said calling
5 party, comprising the method steps of:
6

7 providing a portable communication device identified in said paging network to said
8 called party;
9

0 initiating communication between said calling party to said paging network through
1 said telephone network and said telephone answering apparatus;
2

3 automatically passing said caller-identification information from said telephone
4 network to said paging network without requiring entry of said caller-identification
5 information by said calling party;
6

7 transmitting to said called party portable communication device at least said caller
8 identification information from said telephone answering apparatus and said paging
9 network.
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1 17. A method of communicating information from a calling party to a called party
2 utilizing a paging network a telephone answering apparatus and a telephone network,
3 said information including at least caller identification information comprised of voice
4 signal data representative of the identity said calling party, comprising the method steps
5 of:

6
7 providing a portable communication device identified in said paging network to said
8 called party;

9
0 initiating communication between said calling party to said paging network through
1 said telephone network and said telephone answering apparatus;

2
3 automatically passing said caller-identification information from said telephone
4 network to said paging network without requiring entry of said caller-identification
5 information by said calling party;

6
7 transmitting to said called party portable communication device at least said caller
8 identification information from said telephone answering apparatus and said paging
9 network.
0

1 18. A method of communicating information from a calling party to a called party
2 utilizing a paging network a telephone answering apparatus and a telephone network,
3 said information including caller identification information including at least a bit string
4 representation of a telephone number for a particular telephone unit used by said calling
5 party, comprising the method steps of:

6 Providing a portable communication device identified in said paging network to
7 said called party;

8
9 initiating communication between said calling party to said paging network through
0 said telephone network and said telephone answering apparatus;

1
2 automatically passing said caller-identification information from said telephone
3 network to said paging network without requiring entry of said caller-identification
4 information by said calling party;

5
6 transmitting to said called party portable communication device at least said caller
7 identification information from said telephone answering apparatus and said paging
8 network

9
0 comparing caller identification information received with data prestored in said
1 called party portable communication device;

2
3 providing to said called party said caller identification information and associated
4 said prestored data from said comparing means for display or annunciation.
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